



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY TIDEWATER REGIONAL OFFICE

Molly Joseph Ward
Secretary of Natural Resources

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David K. Paylor
Director

Maria-R. Nold
Regional Director

June 18, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Edward G. Henifin
General Manager
Hampton Roads Sanitation District
P.O. Box 5911
Virginia Beach, VA 23471-0911

RE: Modification of VPDES Permit No. VA0081299
HRSD-Nansemond STP
Suffolk, VA

Dear Mr. Henifin:

The modification of the above referenced permit has been approved. Additionally, enclosed are copies of the fact sheet pages that describe public participation in the permit modification process. Please replace the pages in fact sheet that you received with the draft permit with these pages.

Your permit is enclosed. In accordance with the permit, you are required to submit monitoring reports to the following address:

Department of Environmental Quality (DEQ)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

The reporting forms are included with the permit. You will be responsible for obtaining additional copies of the reporting forms. The first report (DMR) is due for the month of July 2014 by August 10, 2014. Also, please note that a new DMR will be sent to you with each change in chlorine due to the chlorine reduction study.

Please note that compliance with the permit's requirements for use and disposal of sewage sludge does not relieve you of your responsibility to comply with federal requirements set forth in 40 CFR Part 503. Until DEQ seeks and is granted authority to administer the Part 503 regulations by EPA, treatment works treating domestic sewage should continue to work directly with EPA to comply with them. For more information, you can call the EPA Region III office in Philadelphia at 215-814-5735.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court

of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in 9VAC25-230-130 (Procedural Rule No. 1 - Petition for formal hearing). In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

A Reliability Class I is assigned to this facility and this facility has Class I licensed wastewater operator requirements.

DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. We anticipate that in the near future all permittees will be participants in the e-DMR program. There are many benefits to both DEQ and the permittee when e-DMR is utilized for submissions:

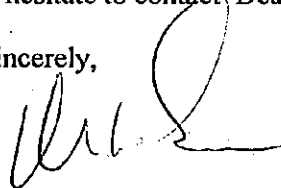
- 1) Fewer revisions for data since the e-DMR program automatically flags omissions before the data is submitted;
- 2) Cost savings on postage, copying, and paper;
- 3) No concerns about using the most current DMR - e-DMR refreshes the required parameters automatically when changes are needed;
- 4) Submittals can be made on a timelier basis; and
- 5) Electronic signatures from multiple people are allowed and e-DMR can be accessed from multiple computer locations.

We ask that you apply for e-DMR participation now so that we will be able to complete the application process when your permit is effective. The following website provides details and our regional e-DMR administrator Debbie Kay, phone 757-518-2127, Deborah.kay@deq.virginia.gov can also assist you:

<http://www.deq.virginia.gov/water/edmrfaq.html>

If you have any additional questions, please do not hesitate to contact Deanna Austin at 757-518-2008.

Sincerely,



Mark H. Sauer
Water Permit Manager

MHS/DDA

cc: DEQ - OWPP, TRO File
EPA - Region III (3WP12)

Encl: Permit No. VA0081299
Revised Fact Sheet Pages

22. **SLUDGE DISPOSAL PLAN:** Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

Sludge from this facility is dewatered with centrifuges and then burned in HRSD incinerators, primarily at Boat Harbor STP. The primary back-up plan is to haul the sludge for composting to McGill Environmental Systems in Waverly, VA. The secondary back-up plan is to haul the sludge to the HRSD Atlantic Plant for land application.

SEE THE REISSUANCE FACT SHEET

23. **MATERIAL STORED:** List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

The materials stored on site include sodium hypochlorite, sodium bisulfate, sodium hydroxide, ferric chloride, polymer, fuel oil, propane, ammonia, glycerol, methanol, struvite, gasoline and diesel fuel. The materials are either stored in buildings with drains connected to the treatment system or are in contained areas. Fuel tanks are double walled.

24. **RECEIVING WATERS INFORMATION:** Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.)]. Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied. Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

SEE THE REISSUANCE FACT SHEET

25. **303(d) Listed Segments:** Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges directly to Hampton Roads Harbor. This receiving stream segment has been listed in Category 5 of the 305(b)/303(d) list for non-attainment of Chlorophyll-a, Dissolved Oxygen, PCB in Fish Tissue. A TMDL has not been prepared or approved for this stream segment. The permit contains a TMDL reopener clause which will allow it to be modified, in compliance with section 303(d)(4) of the Act once a TMDL is approved.

26. **CHANGES TO PERMIT:** Use TABLE III(a) to record any changes from the previous permit and the rationale for those changes. Use TABLE III(b) to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

SEE THE REISSUANCE FACT SHEET

27. **NPDES INDUSTRIAL PERMIT RATING WORKSHEET:**

TOTAL SCORE:

N/A - This is a municipal facility.

28. DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from DEQ planning.

The discharge is not addressed in any planning document but will be included when the plan is updated.

29. PUBLIC PARTICIPATION: Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and noted how resolved.

The VDH provided comments on 4/11/14 on the study proposal and final limit of 0.5 mg/l for the residual chlorine. Concurrence was given by VDH. See attached memo from VDH.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit. Email received 6/2/14.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

PUBLIC NOTICE INFORMATION: Comment Period: Start Date 5/18/14
End Date 6/17/14

Persons may comment in writing or by e-mail to the DEQ on the proposed reissuance of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Deanna Austin at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518-2008 E-mail: deanna.austin@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed reissuance. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:

HRSD NANSEMOND STP
Monitoring Requirement Rationale
Outfall 001

**Total Residual
Contact Chlorine:**

The DEQ instituted a Chlorine Reduction Testing Program due to concerns over the potentially toxic effects of chlorine in discharges. The purpose of the program is to allow dischargers to voluntarily demonstrate they can maintain adequate levels of disinfection with lowered chlorine residuals. The testing requires VDH concurrence. HRSD proposed a sampling plan for the Nansemond treatment plant via letter on March 4, 2014. This letter was forwarded to VDH and concurrence was received from them on April 11, 2014. A formal modification request from HRSD was then submitted to DEQ on April 17, 2014 that asks for permit language for the study to be performed and the total residual contact chlorine limit to be altered based on the study results. The current limit of 1.5 mg/l residual chlorine will be lowered by 0.25 mg/l increments to a final residual of 0.5 mg/l. The 0.5 mg/l will be used for permit compliance for the remainder of the permit term. The special condition states that if bacteria limits are not maintained, the facility will revert to the 1.5 mg/l limit.

At each 0.25 mg/l study increment, bacteria will be monitored daily and chlorine will be monitored 1/2 hours during the study. Each study period will last for approximately 1 month, to include 30 consecutive data points.

The limit will still have 36 exceptions and there is still a special condition that requires reporting when 3 or more consecutive TRC readings are below 0.5 mg/l or the TRC is less than 0.1 mg/l. This condition was changed from 0.6 mg/l to 0.5 mg/l to reflect the lowest residual at which the plant will be able to operate.

Fecal Coliform:

Monthly average of 200 n/cml. This is based on Water Quality Standards (9 VAC 25-260-160) and is believed protective of instream standards. Monitoring required is a grab sample once a week. During each monthly study period the frequency of monitoring will be 1/day. Once the study is complete, the frequency of monitoring will return to 1/week.

Enterococci:

A monthly average limit of 35 n/cml is included per water quality standards. Sampling is required 2/Month to be calculated as a geometric mean. Samples must be taken at least 7 days apart. During each monthly study period, the frequency of monitoring will be 1/day. Once the study is complete, the frequency of monitoring will return to 2/month.